# DOW CORNING(R) 3140 RTV COATING

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier		
Trade name	:	DOW CORNING(R) 3140 RTV COATING
Product code	:	00000000001015788

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Adhesive, binding agents, Electrical industry and electronics
stance/Mixture		

### **1.3 Details of the supplier of the safety data sheet**

Company	:	Dow Corning B rue Jules Bord B-7180 Senef	let - Parc Industriel - Zone C
Telephone	:	English Tel: Deutsch Tel: Français Tel: Italiano Tel: Español Tel:	+49 611237507 +49 611237500 +32 64511149 +32 64511170 +32 64511163
E-mail address of person responsible for the SDS	:	sdseu@dowco	orning.com

## 1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

## Additional Labelling:

EUH210	Safety data sheet available on request.
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EUH208 Contains Methyltrimethoxysilane. May produce an allergic reaction.

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#### 2.3 Other hazards

None known.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Chemical nature : Silicone elastomer

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Methyltrimethoxysilane	1185-55-3 214-685-0 01-2119517436-40	Flam. Liq. 2; H225 Skin Sens. 1B; H317	>= 1 - < 10

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice :	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders :	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
If inhaled :	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact :	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact :	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed :	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.

# 4.2 Most important symptoms and effects, both acute and delayed

Risks
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: May produce an allergic reaction.

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#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.

# **SECTION 5: Firefighting measures**

5.1	Extinguishing media		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
5.2	Special hazards arising from	the	substance or mixture
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Silicon oxides Formaldehyde Nitrogen oxides (NOx)
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions		
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water.

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		Local authorities cannot be conta	s should be advised if significant spillages ined.
6.3 Method	ds and material for co	ontainment and clean	ing up
6.3 Methods and material for con Methods for cleaning up		For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this mat employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding hational requirements.

## 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	<ul> <li>Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Keep away from water. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygiene measures	: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage,	including any incompatibilities

#### Requirements for storage : Keep in properly labelled containers. Store in accordance with areas and containers the particular national regulations. Advi :

vice on common storage	:	Do not store with the following product types:
		Strong oxidizing agents

## 7.3 Specific end use(s)

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Specifi	c use(s)	elevated tempera quire added preca For further inform oils in consumer a guidance docume als in consumer a by the silicone inc	s are for room temperature handling. Use at ture or aerosol/spray applications may re- autions. ation regarding the use of silicones / organic aerosol applications, please refer to the ent regarding the use of these type of materi- terosol applications that has been developed dustry (www.SEHSC.com) or contact the tomer service group.		

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

# Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Methyltrimethox- ysilane	1185-55-3	TWA	7.5 ppm	DCC OEL

## Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form	Control parameters	Basis	
		of exposure)			
Methanol	67-56-1	TWA	200 ppm	2006/15/EC	
			260 mg/m3		
Further information	Indicative, Ide	ntifies the possibility	of significant uptake through	the skin	
		TWA	200 ppm	GB EH40	
			266 mg/m3		
Further information	on Can be absorbed through skin. The assigned substances are those for				
	there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	250 ppm	GB EH40	
			333 mg/m3		
Further information Can be absorbed through skin. The assigned substances are those for			hose for which		
	there are concerns that dermal absorption will lead to systemic toxicity.				

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	· · ·			-
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Methyltrimethoxysilane	Workers	Skin contact	Acute systemic ef- fects	0.38 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	25.6 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.38 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	25.6 mg/m3
	Consumers	Skin contact	Acute systemic ef- fects	0.3 mg/kg bw/day
	Consumers	Inhalation	Acute systemic ef- fects	6.25 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.26 mg/kg bw/day



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		Consumers	Skin cont	act	Long-term systemic effects	0.3 mg/kg bw/day
		Consumers	Inhalatior	٦	Long-term systemic effects	6.25 mg/m3
		Consumers	Ingestion		Acute systemic ef- fects	0.26 mg/kg bw/day

# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Methyltrimethoxysilane	Fresh water	>= 1.3 mg/l
	Marine water	>= 0.13 mg/l
	Fresh water sediment	>= 1.1 mg/kg
	Marine sediment	>= 0.11 mg/kg
	Soil	>= 0.17 mg/kg
	Sewage treatment plant	> 6.9 mg/l

# 8.2 Exposure controls

### **Engineering measures**

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye protection	:	Wear the following personal protective equipment: Safety glasses	
Hand protection Material	:	Chemical-resistant gloves	
Remarks	:	For prolonged or repeated contact use protective gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.	
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).	
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.	
Filter type	:	Self-contained breathing apparatus	



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# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	white, translucent
Odour	:	slight
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 65 °C
Flash point	:	> 101.1 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.05
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	300 Poise
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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9.2 Other	information			
Moleo	cular weight	:	No data availab	ble
SECTION	10: Stability and r	eactiv	/ity	
10.1 Reac	tivity			
Not c	lassified as a reactivity	hazar	d.	
10.2 Chen	nical stability			
Stable	e under normal condition	ons.		
10.3 Poss	ibility of hazardous r	eactio	ons	
Haza	rdous reactions	:	compounds. Can react with When heated to presence of air leased. Adequate venti Hazardous dec tact with water	temperatures may form highly hazardous strong oxidizing agents. temperatures above 180 °C (356 °F) in the trace quantities of formaldehyde may be re- lation is required. omposition products will be formed upon con- or humid air. omposition products will be formed at elevated
10.4 Conc	litions to avoid			
Cond	itions to avoid	:	Exposure to mo	bisture
10.5 Incor	npatible materials			
Mater	rials to avoid	:	Oxidizing agent Water	ts
10.6 Haza	rdous decompositior	n prod	ucts	
Conta air	act with water or humid	:	Methanol	
Therr	nal decomposition	:	Formaldehyde	

# **11.1 Information on toxicological effects**

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

### Acute toxicity

Not classified based on available information.

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Prod	uct:				
Acute	Acute oral toxicity		: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method		
Acute	Acute inhalation toxicity		Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method		
Acute	Acute dermal toxicity		ticity estimate: > 2,000 mg/kg Calculation method		
<u>Com</u>	ponents:				
Meth	yltrimethoxysilane:				
Acute	e oral toxicity	Assessm icity	at): 12.3 ml/kg ent: The substance or mixture has no acute oral tox- : Information taken from reference works and the		
Acute	e inhalation toxicity	Exposure Test atm Assessm tion toxic	at): > 42.1 mg/l e time: 6 h osphere: vapour ent: The substance or mixture has no acute inhala- ity : Based on test data		
Acute	e dermal toxicity	Assessm toxicity	abbit): > 9,500 mg/kg ent: The substance or mixture has no acute dermal : Based on test data		

## Skin corrosion/irritation

Not classified based on available information.

#### Components:

# Methyltrimethoxysilane:

Species: Rabbit Result: No skin irritation Remarks: Based on test data

## Serious eye damage/eye irritation

Not classified based on available information.

## **Components:**

# Methyltrimethoxysilane:

Species: Rabbit Result: No eye irritation Remarks: Based on test data



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#### Respiratory or skin sensitisation

## Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Assessment: Does not cause skin sensitisation.

Test Type: Buehler Test Species: Guinea pig Remarks: Based on data from similar materials

### **Components:**

#### Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Species: Guinea pig Remarks: Based on test data

## Germ cell mutagenicity

Not classified based on available information.

### **Components:**

#### Methyltrimethoxysilane: Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) : **Result:** negative Remarks: Based on test data Test Type: Mutagenicity (in vitro mammalian cytogenetic test) 2 **Result:** positive Remarks: Based on test data Test Type: Chromosome aberration test in vitro 2 **Result:** positive Remarks: Based on test data Genotoxicity in vivo Test Type: Mammalian erythrocyte micronucleus test (in vivo 1 cytogenetic assay) Species: Mouse **Application Route: Ingestion** Result: negative Remarks: Based on test data Germ cell mutagenicity- As-: Animal testing did not show any mutagenic effects. sessment

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	<b>cinogenicity</b> classified based on avail	able	information.	
Not	roductive toxicity classified based on avail 1ponents:	able	information.	
	hyltrimethoxysilane:			
Effe	cts on fertility	:		e: Ingestion fects on fertility
Effe men	cts on foetal develop- t	:	reproduction/deve Species: Rat, ma Application Route	e: Ingestion fects on foetal development
•	roductive toxicity - As- ment	:		dverse effects on sexual function and fertility, nt, based on animal experiments.
STO	T - single exposure			

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Components:

### Methyltrimethoxysilane:

Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

#### Repeated dose toxicity

## **Components:**

# Methyltrimethoxysilane:

Species: Rat Application Route: inhalation (vapour) Remarks: Based on test data

Species: Rat Application Route: Ingestion

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Remarks: Based on test data

# Aspiration toxicity

Not classified based on available information.

## Product:

No aspiration toxicity classification

# **SECTION 12: Ecological information**

# 12.1 Toxicity

### Components:

Methyltrimethoxysilane:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia sp.): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 3.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
		EC10 (Pseudokirchneriella subcapitata (green algae)): > 3.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to bacteria	:	EC50 : > 100 mg/l Method: OECD Test Guideline 209

### 12.2 Persistence and degradability

## Components:

Stability in water	: Degradation half life: 2.2 h pH: 7
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# 12.3 Bioaccumulative potential

# Components:

### Methyltrimethoxysilane:

Partition coefficient: n-	:	log Pow: -2.36
octanol/water		

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#### 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

Not relevant

#### 12.6 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

# **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

## 14.2 UN proper shipping name

Not regulated as a dangerous good

## 14.3 Transport hazard class(es)

Not regulated as a dangerous good

## 14.4 Packing group

Not regulated as a dangerous good

# 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

Remarks

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

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	of dang	erous chemicals							
	REACH Concer	Not applicable							
	Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable lutants								
	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control or major-accident hazards involving dangerous substances. Not applicable								
	The co	mponents of this pro	duc	t are reported in t	the following inventories:				
	NZIoC		:	: All ingredients listed or exempt.					
	TSCA			All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.					
	AICS		:	All ingredients list	ed or exempt.				
	IECSC		:	All ingredients list	ed or exempt.				
	ENCS/ISHL			All components an inventory listing.	re listed on ENCS/ISHL or exempted from				
	KECI		:	All ingredients list	ed, exempt or notified.				
	PICCS		:	All ingredients list	ed or exempt.				
	DSL		:	1999 and NSNR a	tances in this product comply with the CEPA and are on or exempt from listing on the Ca- Substances List (DSL).				
	REACH	1	:	ents are currently purchases from ne	m Dow Corning EU legal entities, all ingredi- pre/registered or exempt under REACH. For on-EU Dow Corning legal entities with the t into EEA please contact your DC repre- ice.				
	TCSI		:	All ingredients list	ed or exempt.				

# 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

# Full text of H-Statements

H225

: Highly flammable liquid and vapour.

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H317		:	May cause an allergic skin reaction.				
Full text of other abbreviations							
Flam. Liq. Skin Sens. 2006/15/EC DCC OEL GB EH40 2006/15/EC / TWA DCC OEL / TWA GB EH40 / TWA GB EH40 / STEL		:	<ul> <li>Flammable liquids</li> <li>Skin sensitisation</li> <li>Europe. Indicative occupational exposure limit values</li> <li>Dow Corning Guide</li> <li>UK. EH40 WEL - Workplace Exposure Limits</li> <li>Limit Value - eight hours</li> <li>Time weighted average</li> <li>Long-term exposure limit (8-hour TWA reference period)</li> <li>Short-term exposure limit (15-minute reference period)</li> </ul>				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Sources of key data used to	:	Inte
compile the Safety Data		eC
Sheet		cy,

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN